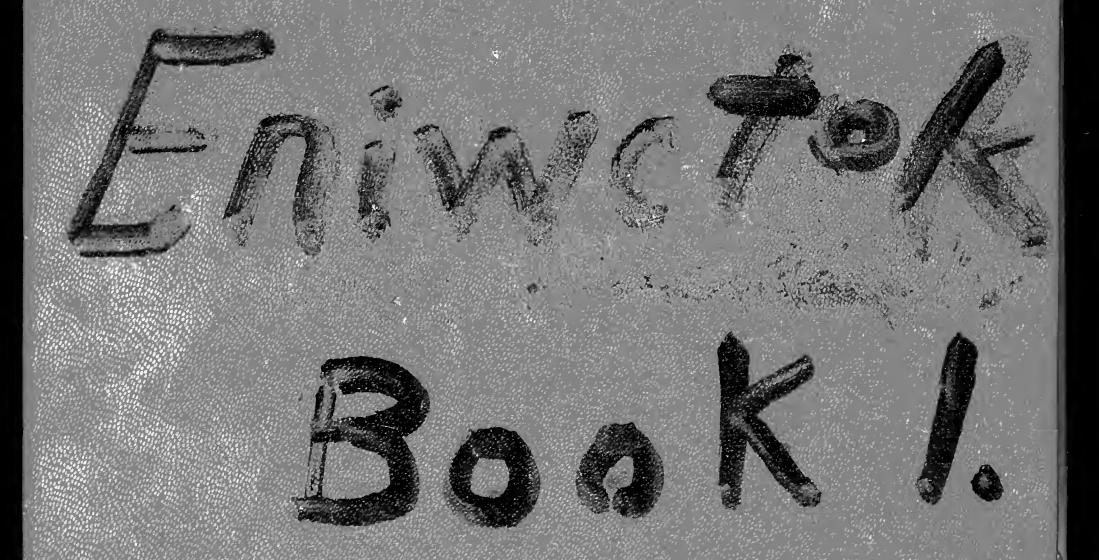


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOOSE-LEAF FIELD NOTEBOOK

9-137



= Gare M P -- 4 A-Core 2 3 1, 3 - 11 - 70 The second secon FESICE H The ceres (b) 29 Market Committee スシェアルス 3-10-16 450-2363 6-6-47 5 > 5/6 5%

8 1x 5/a, 5.2 -1 Emiliary, + Flora ·/i/ 12 ~ 1701. - 22 Sample 0-10 as 211 mersure interior are from rotary toble. No sample 10-20. Only one sample sack taken for intervals 20-45, 45-55; 4 55-60: Two sample sacks filled therew Ffer. Drilling stan is to duill with 8 3/4 bit to 150 ± Ft., then ream hole, then here 13 3/8" caring Due to caving the samples to 150° are expected to be contaminated. Drilling was very easy in very soft (unconsolidated) material to 573 (duriting slightly harder thereatten, but still easig. Hole Laned slightly until ped was to ce connected at 103. Here caring was so bad that Red mud" (650/65.) had to be added to destilled in a stready sonsisting of Zengel, Impermex, & Fibertex, Jefflakes, (loss circulation marenial) 4 Cacestic. Cassie is Import Preservetive. Drilling cons i at 103 and about por see the property of the see o May of bite shiff, let trough and in from head of outin the fracegh. R. C. Townsend sampling on swing shirts. - Mary 15 - Teres - ... cell = 10 3's - Hard Cayer + 105 107

- Dulled pard novem 11 21/100 Samuele - - Samuele, is cevered core constant frequents, surents, from bit life steppedant + much altered to cerentite. Sample forten a ter 5 minutes chenda tion (30-140) Sample (marked 110 = 150) 150' Sumple. 1 to heal 13 =1-1 Note. The There is marking buy 1. for there and while studied at 116, 120, 120

The their property of the remaining the first of the remaining the rest of the remaining the rest of 160 Sunger - (-Manter - 16 - 172)-15% - hadded en och mitem 164 puller string to receive. Care to the true To we then

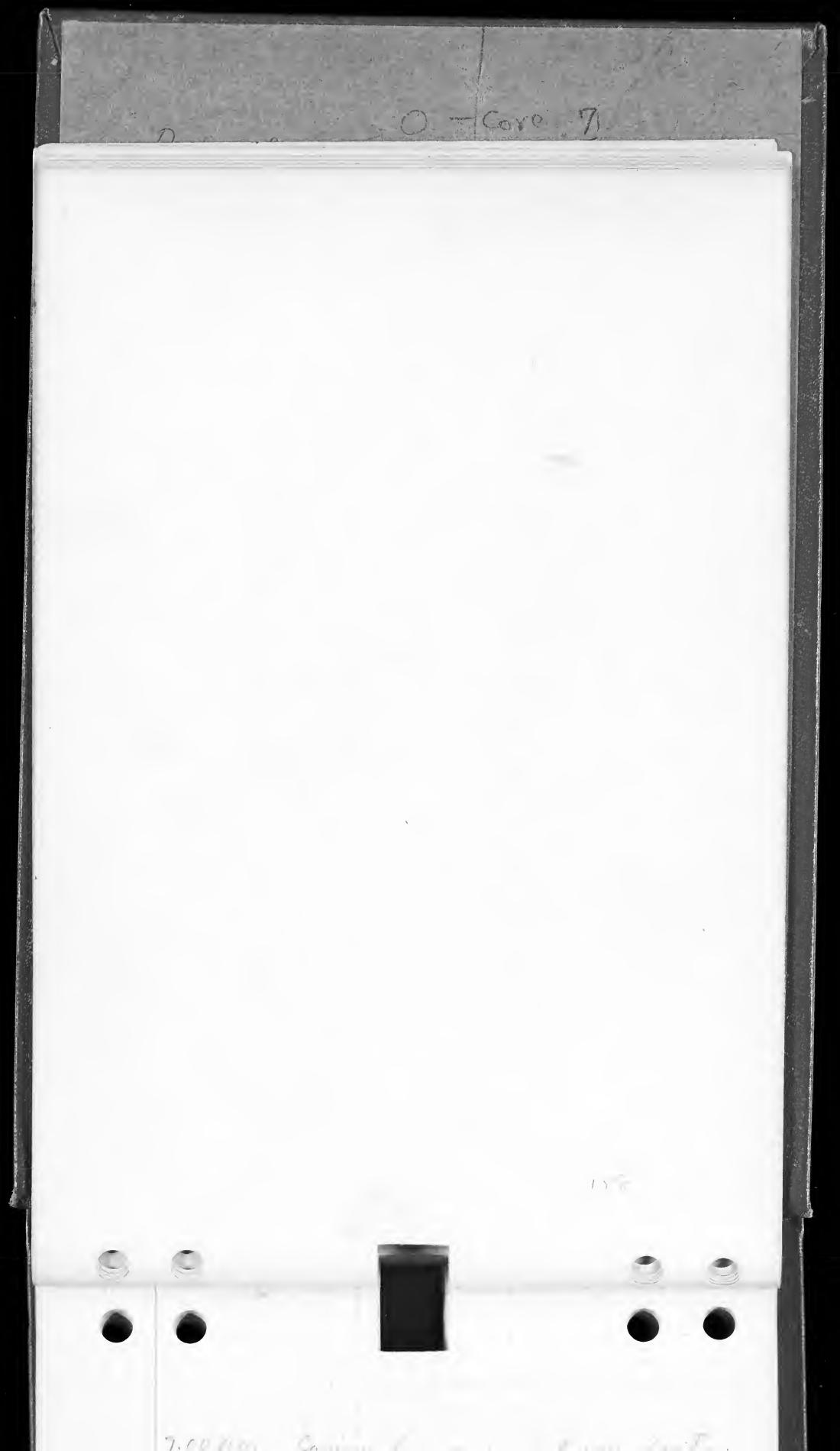
Tore 7 29.28 29.38 150.53 109.40165.

the really in 30 his love from May 13 Tuesday ~ 8AM - 4 M Look 1:15 reaming as 115 shiff; must ick, purple. Kelly down -7.0 129,25; bit wandering around consideresty near end of run. 129.25 29.28 - rod added - about 8:30 AM 2, 19 - CYG53.0YEY SUB 5:00 - on rod added = 9:10 AM 165.72 - to set casing -balance of morning = red = ng while presaring to a literation. -cf 100 pm ran Totro Drift record, finding hole off only 1/4 at 160 - Pull out of hole, 10 set 13 % casing - remove rotary toole ist must too small -2 - Tril - start was 3 - of ou and on the type to vun sid, software (see p 6)

Hotes on cuttings ~ F1 A foraminford sand made up mainly of beach types such as Calcarina and Marginopera; most of farmer without spine but fire with segments four 150 ech. spines; microgast. in some oundance, few 40moticina along with numerous les. - orange tubes prob. Tubipava. Freg. Et polecypods common + some fine was. of under exisin, frossioly core! 5 55 Comment of the contract of the second Commence of the second Total grow the grant of a second technic for frequent land. Small man - colering Tester may receive the of the state of mountains from making hypother therefore to of and thereme. There Welling Theren and the agent of and wearner with the comment L'andre de la company de la co Perturbage a recommendate deposit, and a differ It had the trad touch the times defends 55-60 cinilar to last but with of Halimeda much then shall a bivelves - looks I a la goon faure of intermodiate depth - navinopula Culturina rare numerous, cords vare; gest. with oxig colv, few ect pines 7.0 - 80 Coarse Halineda sel , 1111/12 1 + 45-55

Halimada dibis finer than last 80-90 Coral and Halimeda = bris; few molliste (5) as molds; Tubipera and Homotrema vare; Pylgina usa here tree (in separe vi). 10-100 100-110 Fine to medium coral and Helimoda debris; moll frequents; rare beach type forcems tothers Invol mold vare Tubi our Homotrema, ech. apins. Course coral frequents with rere Haterial 110-120 mentaninations); few frogment: of large & verficeh beach forams in for winbers but only a few of the Comments have spines + most of these are broken 126-130 Course cond similes to last with larger pieces yellow calcite most of veril piece opposer won; very little fine material (forams, it) thickened + this present in large por ubsence of fine 130-140 Essentially same as last 140-150 150-160 160-170 Similar to 120-130; some places of fint material well commented (see son). The 111 111 1 x / 120 - 170 is mainly a well Estmented could roll; mill moll & much I l'elcite - zone levihed vi-x/ x concreted [] Similar 120-130 (see Notes on Com =1)

May . 3 cus. 4 P.M. - 11.35 ... - 100 15E: 3 4 P.M. Casing being being Atacom' 75 en stopped and and and are Turtion en by repeated paliting and are spring. At about 100 essing returbe to print to the Hole apparently cavedi - Casing pulied and nots put on to drill out - Hole arilled set static at a server . Ele. - Reaming to about with. - Circulated to end of spire to build up mud 2 staring to Spring = 11. 444 14- West. 12 Mid right. - 17-55FLL. - Circulating med to 1.35 AM. Combileling with the men series of mixed -1.40 Sterted puling try. Mud H = 1.50 Set rong re That resume To plante off " ledge " schiller) which held up send of terrific 200 3.15 pm. Crawping, bit on dottom circulate yourself the total - Engineer to 201 coming payie



7.60

1.4 14 = 7:30/19 - 4 PM ~ Look

7:40 -ran 4th lang casing, 5th (las)
washed to bottom 158 bolow retary
table; clean sludge pit;
but this essent before blow out; pumped mud
on tops coment to force it down but only
reconsed streaks from outside casing;
pumped out sludge pit again and cleaned out
around top casing preparating to comenting
outside with concrete.

4 -1 - 3 yds concrete sot around oasy in cellar.
4:30 P.M. - Rig shut down suntil come it to te
-ets. Crew cleaning and preparing rig for deilling

May 15 ~ Thuis - 8AM - 4 MM - Land

Westing on commet, but in que mud: procent

cotton of the drill mipple color poters

1165 5/08-0, 15 the carlet for somple. 767 Laster. 2001 in pple stein out of 2411- 5,30 NO INE 5,3-17USSELL 1.45 AM. any constabiled drilling and sixenation. Til 5.15. Prepared much 5.3 The stand the first of the stand 6.00. AM - Light well J- mulnule It starts his first chiefe Last . Got one between when quantities of thirth Hack The Control from control through To offeet chief test. 12 in contamination of house

The survey (the say in the same of - house her a seed the a second . D. 12, 18 m. Dela Bear & 21 175 -185 12 mol 120 -130 -in 100 100 100 Tour de la company de la compa 16 - 8 NM - 4011 LEdd 8:30 - pulled soic soil w/ 1 = 1 conel short is, from y well come to diviller not I' he der drelling 191 4 going beck into hore with 1-4 merebit = 192.4 = both = + 11115-1220 come cultury of cord but all soft drilling are to declin

TOYE 7 Crol tred 15 Corrlliferius Helimode Is. Notes on Core =1 -170 -171 thereing in 2 war - mother one spi) 5" base chambles, Held of Top of expect piece is a colony of coxel that 15 2 to 11 poster = 3routh; this = 514 and other smatter pieces of cerelaire Embedded in a nation of Halmeda segments, well preserved micro-mollusics, smaller Foraminifera and undet, finer debris All foss with orig. shell - no molds nor cavities of any sort suggesting solution. The material is producetaly well semented. On Engeli it would be placed in the enral. seed 1s." greyp. The material probably is la sound, probably close to (ar part of) = ==ral Knoll Lower, large procentoully in 2 Losts the upper one 3/2" the other slightly smaller. This seritorial is similar to that above but interns fouser and smaller orals, and i proper tribble, The is composed primarily of Halineda dibris such as is found at intermediate depths the existing 1250011. Bettern precent the out evaluations al - in the first process but friends to some of coral may be in position of growth; sides of eve show contries; these do not uppear to be solution cavifies but places where fines were washed out during covins. 2111 -11. - Suggests 11 11 11 lagoon repth news (et -) = =

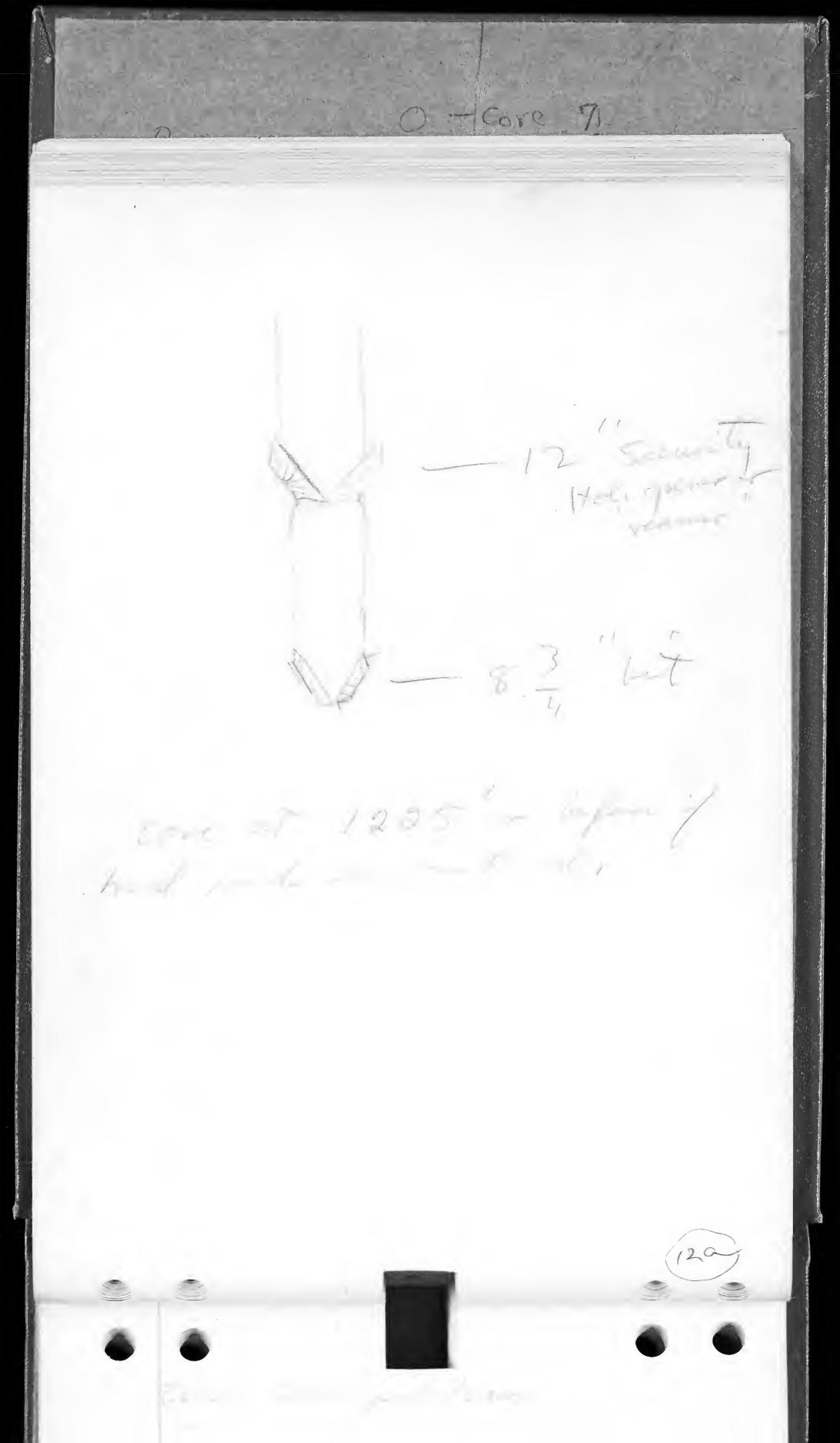
of cora ming be in posi, sides of never show cavities; these do not uplear to be solution cavifies but places where fines were washed out during covins. will this ente suggests intimesiale lagoon depth near (or on) a seral knoll (ga) 230-240 (- still soft but way 2401-250 / hoary weithing in const 4. Atilly 2512 - 260 160 -270 210-200 +01 =M - - = = = = = = = = 200-296 tenture -290-300 to yet - cuttings started 570 Ten rearried about 5 26 and the same coming, all soft wee to driller. Collection of autings in oak 10' begun after 7'drive dewn-at end sack 10 mayer string circulated until 2 soiles cuttings collected. A F. M. 70 11130 811. TOURSONS 4 816 Day 100 570 to 660 - 500 whilling 4 entry have higher meaning of the trayments (4 1/2 1/2). 1055 of day GALLT. AL STANDED IT GOD' to BUILD that will be a distance to the time and . 8129-8159 P. - 75-6 me mell 15 (20.) X

No extense showerful the end of the sample Colc Sugar for the 600'- 610' pe 310-120' set of 11. JECC 123 2 West of cont mercuring more. Watered Kinny I see the formal committee " short, would 130 and record stronger of the file Hear a" the material to the suit and the lite is a Zenten Ermersses gerkinn Zentente en im - F 15 Diecos Rof which you were some V. At the of sine is one forge make a cont - had had a feel and a against their their density parts. 9 Hans - 7145 Expan Permaning corer Fort at smith spent chebally, my 911 1 20 th 40 626-638 100mg 19 - 1954 -12.30. Standed contesting Juny 16 20 6 4 1 6 50 64 1 + cord 4 moli 10 langer motod HIZ CE JC----- Company of the second to a considerate that I had the compense of them to the tettere of cont. of course in 590 - 900 - 1-18 Co Fine 64 GOV - 4/10 - 10 Blue 10 - Comment - White titue de la companya 11

O THEOVE - 7 Coral limestone N/1/2 31 Core # 2 - 600 - 625' (see out) Care douglasts of a prince of souther and 12 smaller control piece (encel Miese 3011 to Cole 3/19/52 0, 5. 11/6 2) 19 is a cord, earniers, in which the veres without is epition of pear as molds. en confining of the were well as tollow extente within our A serieth lasters the of same material. nicht melds poor. Many for - all , are obsidisty int in be time of growth. English to the second of the s shove, minded presented maling moderns in soften bite - bite these may make id. squeezes. Cole 15/36/57/ 20 82 200/ mode 1)

ola and brain .

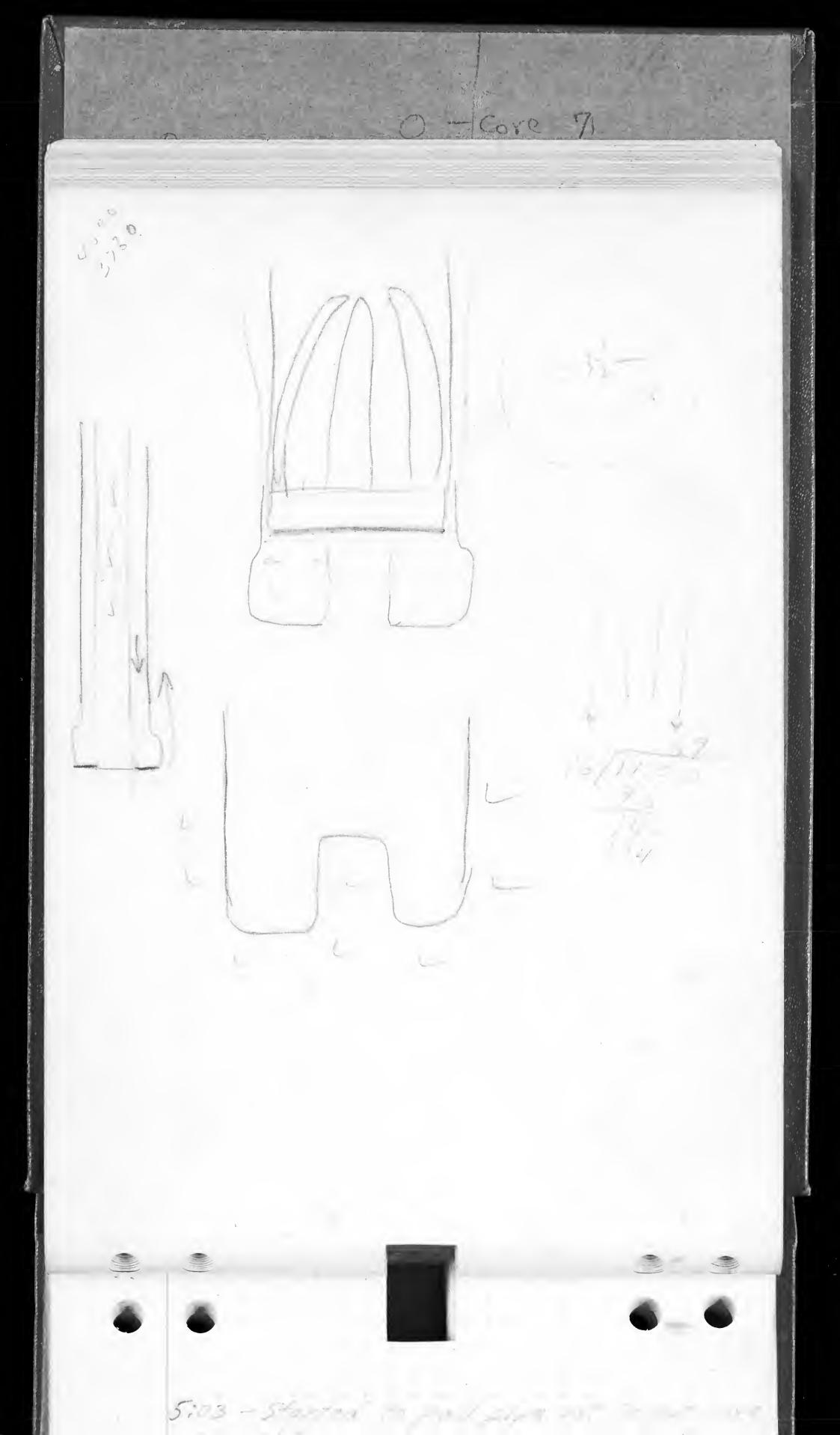
Dolly rent and the same su zarepare el e 445 MM - SMAN JULIAN TO A Lord Circulations at 973 Drille - (While) comment he had not or 975. Expension, wrecited to Mary thing & ream lighting deficie they all in one - This done doub of. - Built up must with hite accolour ships 1940 to Ellote: Jestern Jon sound recession + he was emphal to shot down but need -town from returned HTZ] 2501. 8AM - 4PM - HALLedel 7 to start bede an acet blugged but to 150 its 10-25 regreened would at lang - month of 12 4 - 2810, - 572 1 756 - 11 / 051/19 - 1906 - 001 - what would be e- 11 Vision to hote him 1, 700



4 P.M - 11:30 -11 Car standard to the form to be the series because but played. Tob men son it 8:20 PM. 82 WE DITT 2 - - 201 - 3 PERSONAL DESIGN WHEN TO EVENT OF NOTE. Reamine started 95. 1. Julian Daniel Bold, tout where the strip the top of a part of the same of the FIRE REAL DEPARTMENT OF THE VATOR OF THE and the second of the second o All are the engine of entirings between The make for a med of the shorts of The place 9 Pain - But Down to 963. Then charling. 3:21 Rm Checololists Lout Standard In 17 789 12 - Deller continuen 1 12 1 william WORLD DAYNER STOLD AND AND ALL YOUR losing unter then bit drapped -4' and deried harser again. Anoter "soff" spor 3-4 hit 1, 12 ? 92 - 1000 in -1111. 9:48 P.M. 200 ed 300-1000 - 1. 1.1 1. 3 min. Dr. 20 2 1 11 11 11 12 12 1 1 1021. No 5711,215 acertale from 980 to 1321. 14 13211 sije pules. Pipe out to see go takes popular Torg to me in how and stanty suff. May 18, 1752 - 12. 19 - 1 gracel 12.0. Mil - some of slowh git. Prevering
who probe of and (Til 6. 1) 18 ~ EAM - Hadd May. Sunday Into note with 834 rock bit; down to 1035 to by 10:30, drilling dry; called Coray for Emorgency shipment of 200 gel (400 sacks), Gel flak (25), Fibertex (25) and Tanner (2 drums)

7/15 prob. 51/t 20n- 1 Fig- 31 - Circulation book of 9:40 from 1045+ return almost clear water sine very

This prob. sift - Circulation book et 9:40 from 1045+ return almost clear water; sine very 10 10 - draw 1075 (100 berow ca vital the live of any start 1083 -11:00,A11 - at 1130 - only very fine, coffingi - most soirs into churchy still? CIV Water Stron -11:5 MM - 1130-40' - circulating to mi-machiericut vir fine; may be mostly from top lay 515 -11;40 AN -at 1160 - no change -12 30 mm = of 1210' - cultings very /15/1-- cer while the 17-42 re- 17 - IPM pulling out about 200 foot to awout More Jeffiere, te orderni from
Paris sory this morning. -2:48 PM Mizing The C. 4 P.M. -- 11.30 . 15 Mixing ... a = 12. 146. 4 200 pinc 4,40- - 120 1210? 1150 - 117 11- 5000 107 15 32 7 00-1 - 1 + take a core. 5 - 12 25 to 1230 taken - + 1232. January 1230-70 1200 - 1-1232.



57.73 - 3.34. Ster 3/2010 The second secon CLOSE AR STUDIES 2 -- 3 3/4 5:17 Starta de la companya del companya del companya de la company 64 100 J 135 TO DE WALL OF THE Says It weller wars it first De Alag ye et y all and the way was you and the way was the earlies found and the way access, soul to the 57 Locity some dellas Flore throughout the FF-FFQ. Cating complete of 10:00 9 th. Pipe pulled. 11:25 Core out. 11 ft. core recon-nes from 15. Feet of an 11-9- 69% VE = 0 VERY. Circulation opposite to state at esting. Comment of 28 pieces of crient core. I weny we length from 21/2 unches 70 9 inches, 1st pecces Of undired cire ranging in isce by. Lege, July 3 miches To 3/4 inch and one buy of gravet sign come recovered underestablished about comes must ordented been of core . Each price of circulal cortel is muned with a Ton appearant surpare and perced in core low Top expend to left, I returned of series were not numbered in sequent se their com should be Taken to b removery from core box.

In a fill - hald december 19 the state of trail which to 4.00 /1/1- 19/00 ,12000 , 12000 Au Land Land House Carrier & House to The second of the first of the second of the 41.45. Recement to 17 44 velent 6 sometes of muel with no return of Occerlation, Si AM, Praches - The Comment of the -1-28 , fully 1248+1260, 1454 horse Liebergel 1- 60 g Stell you sin the second A bout 18 revelor of the world from 20 51 ord 1206. Strang returned From 126-1 To 1272 is lad 5.15 PM Since of more of more Men cornery and in dulling to to set summer of the 1-17/51/201----Rolleting helly until out years + = of bottong See back of this page for deline 1232 to 1272. - Dee plb for notes on core. 1501 is and mollaries are preserved sme of do so sprtions of Enic storn whitesplant to be larger but most are manytellized and in may not be possible. Sent to cake by the or remoted process from

1232 126 121, -1-1 rule or he 1 may 12 days 110 3 feet also do and 1 duffice response time to better the Real Paraul AND VILLEY - Long Co., and the American 156 almost the second of the

the fill the state of the state Contract of 15 (-the purpose of the same The first term of the contract Note: And the second of the se 1215 To 1276. This circulation) May a Mon 8AM - MAM - Ladd Delayed by failure of gas engine that starts big diesels. Stirt buck to bottom at 9:20 AM; some coving - back on botton (1272') at 10AM. Moved coment pumps to shove to increase volume water.
- and no (ugh) circulation! - 10:10 - drilling hard at 1285 (5' beyond Engobi)
- short down to complete pulmp installation, etc. Note: - Limestone of core 1232-1248 is donse 43 and recristallized in hiring dar cavities left by fine removal of a rule and other material All or for to use mallests are preserved en incles; ever of dever sentions of one contain storm whit appear to be larger foran - but most are recrytilized our alines to cale is a property prosection from

Core # 3 (spec. 5) - Gold repirts

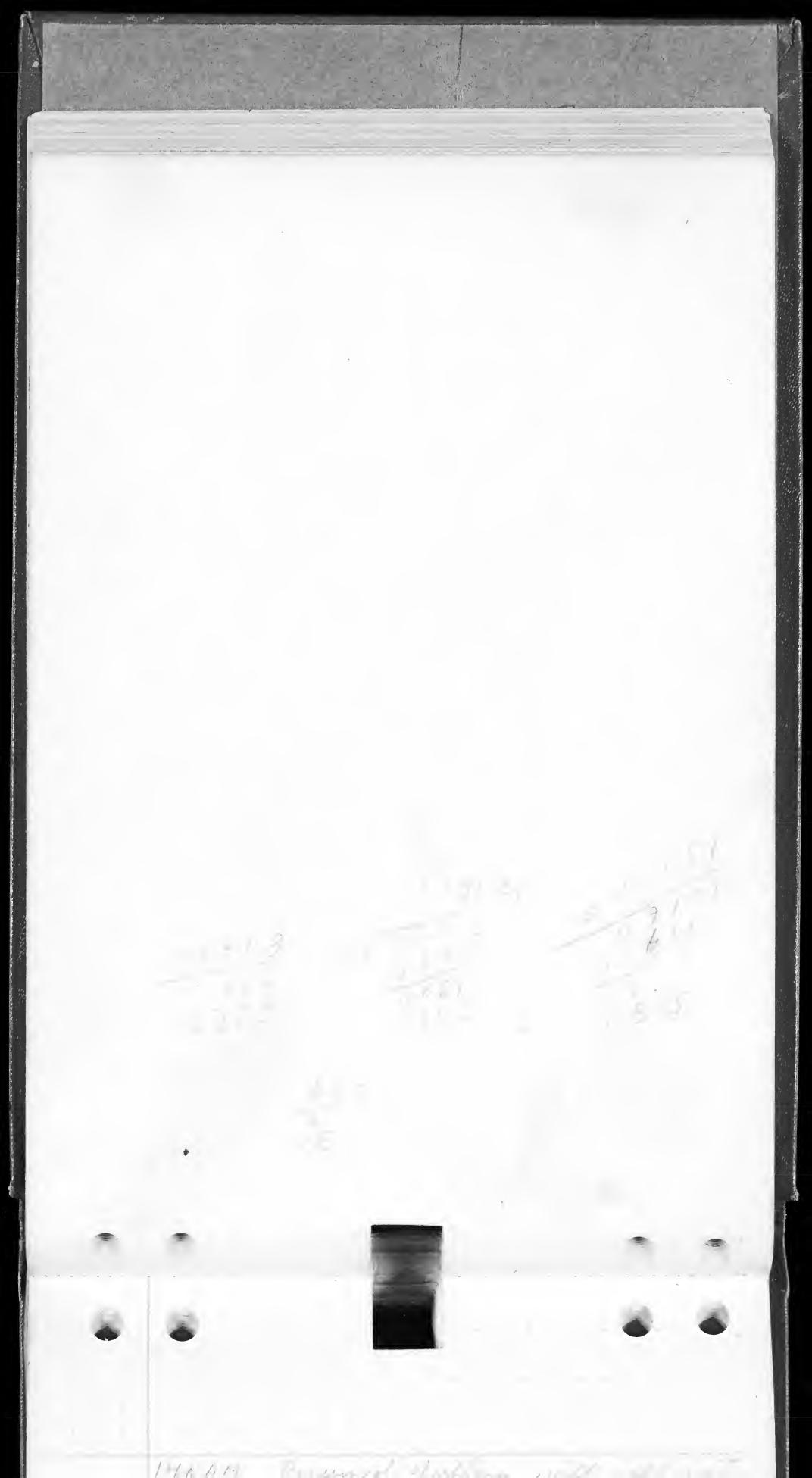
(5/26/52) - has Grand ypods - may

be ceidae - if so in Fort ei

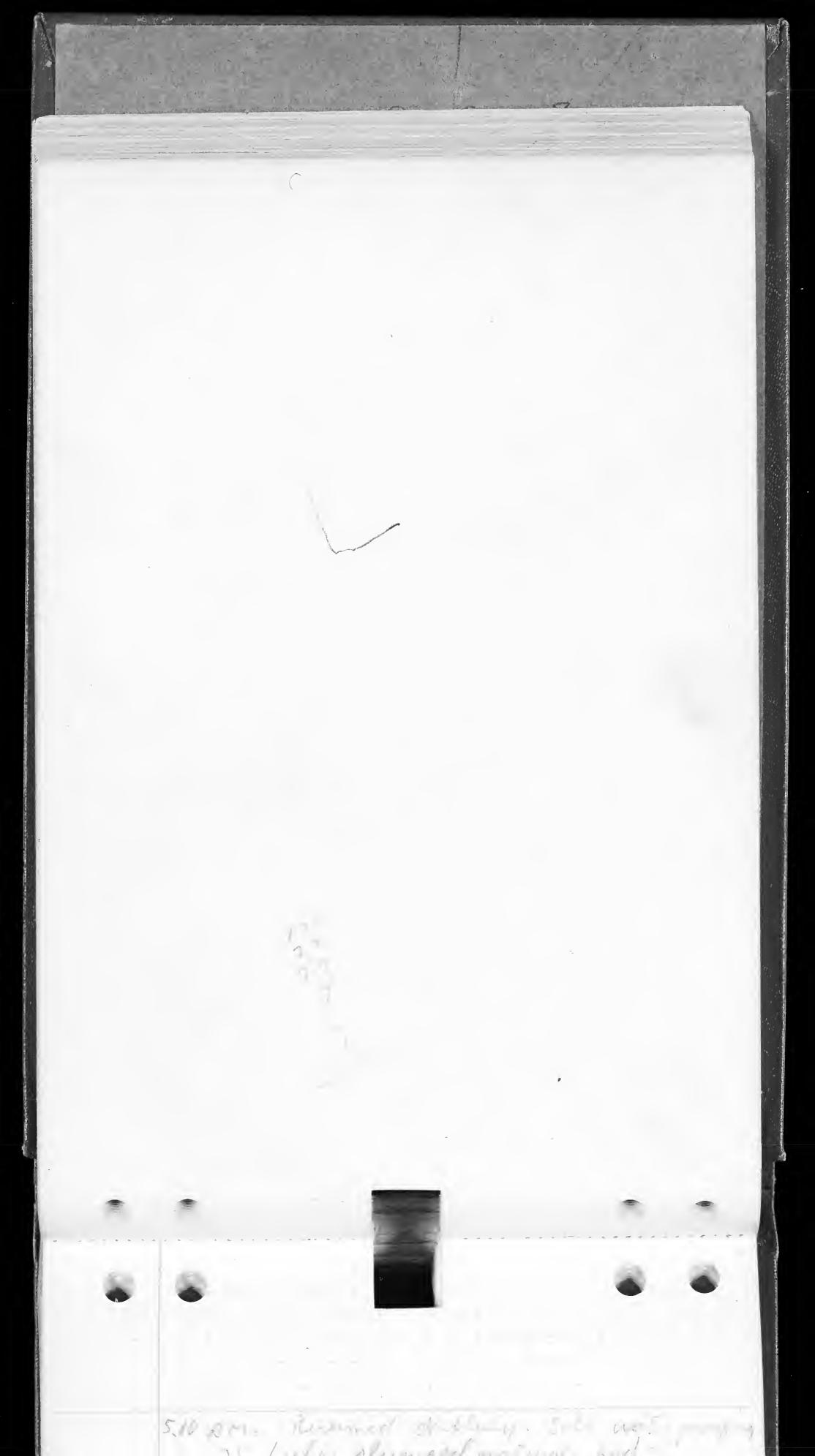
clso finisher- in

160

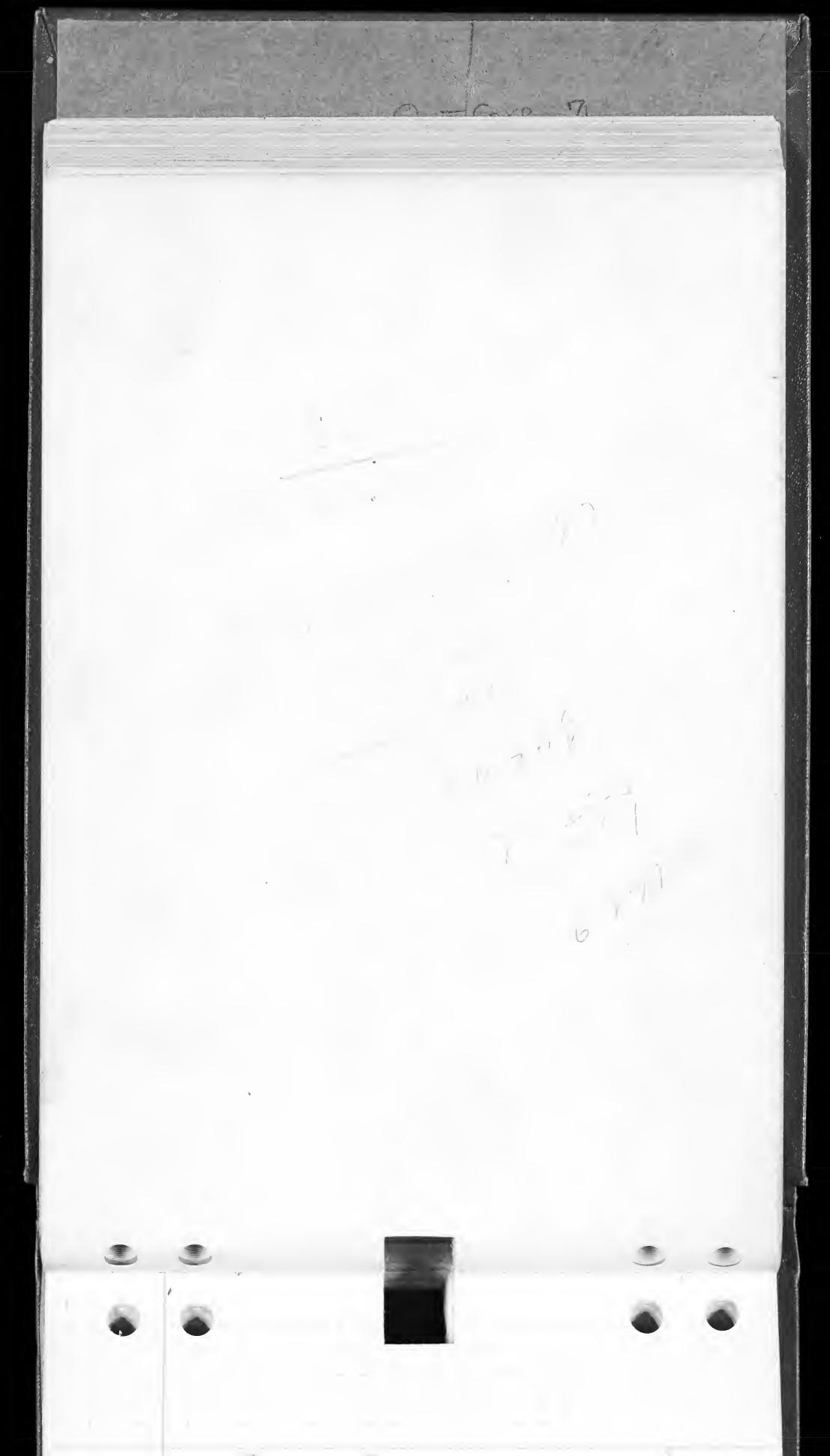
bottony, This day was mediated on The same as the "Lill layer" of Bitime that is Miccone & and repros a time (late for early 9) when this pert of section stood above sek love + core's, it Were dissolved 1 Miores & shell's Edone Lill layer were not so affired.) The men. difinitely Mos ossue will Pleistin change on lovel. 4 PW. - 11,30 P.M. Hig shirt down at Laginning of 18 18t 57.02 Stilled de Min # 12.4! Stopped 1312: been 1111 used up. Dulling to a 18 was only fairly hard with two sout a ever to still the still the deliken Files promoter 741 Dulled 120' - 1341 Breeze 1 -7 2370agazin Struman der in British Albertait and and 16:43 5/1/2 de de muy agen e - 154/: 11:20 Start dry by at 1-88-7-2 All such in the second of as the little And the contract of the retrieval of the little contract of the But the stop the stage many from all the MIC. 12-12 17 TO EAT. 9/21, Ben 1334 123 - all Driller To 14 - worth sult similer in any interes. Proc from det early Tetricel. (1424-1426 - Very hard 1126-1164 Fruit hard 11 74 - 14-6 = benja - well now desiste-ex) 1211 - Filling god with with



Action 1 to Comment To the Comment To In park britishes Derina Love Ecolor 1451 1450 - 145 - Hard out - 2 minert should with 14,000 floor fill. 145 1477 - proped tim 22 feet in Action and them. 2.15 /11. 1477-1506 - Dupped - leve 79 feet in 3 minutes - Hot more Them I feet total historia in matter of inker. 1504-151, + 1 rule fle 12. 1515-15-5-11 15 B - 1570 foreign hard 1520-1575 - Prelley served thatter consed by but hittery struthing roled in the 900 - 60 W 600 - Willey very refl or action on - Charlens weren - = = 4 for - Rock feely 1537 - 1530 - Took 10 minutes -en-The 15,000 Che on wit - Fairly In and 15,35 - 1533 - Facily hard 1533-1535 - Free ducy. J.00 NM - STOP-1-10 TO MILL PETE.



5.10 pm. - Comment of the say. It was --The face of the second of the second . The supplication of the state the tilly, hered to place the house of the selfating I'm (I'. 53. R- Cl Rathering & of the To Elwan some 15th - WEST A- Many mane shared in Sing round to 1 / It fell 100mm 1218 15 316. Charlemany of aid instant on many Elytroland, many testing) 5.59 NM - Pit for at 1567 /t. to fee . and challenny and but my wey showing. to refuel person 6.10 - to and -/ 2 m/1 - selding pits 1. 1. 1 - fet drilled (1388 - 1576) which can't reiles to all to buch. Duilley regardly 4 tenes of their (19)



Court of the Manual of the state of the same 1. It is so the first and the and the state of the said the said many the same of the same water stand allowing to hit, one in anomalia for and the design of the same and in the section of the defermance of 2----company the law - lapped in The dies 1532 - 1535; reful be, - 25 1 and a more of the contract of Hip circulation they with bet tilling close with me water the sample solles lies. 190420 - Tore 8119-419 Lado Repl. = 3 Shot down at start of shift to complete TOONR filling of pits and to continue work on one of pumps that is still not operating satisfactority. - Back into liste of 8:30, drilling through 55 coving -8:50 down to 1593; drilled mostly with top of interval last offeet soft; Jength but hole had caved put Kelley book and drilled CIT, 20

9:15 added another longth is into 1022 interval almost while hard jointled smoothly except for 2 spots of broken mains where pressure was vaised. Driller Ligures this infortel hard enough tocare - would also make good casing seat; circulated for 10 mil Pits over het omt jafter 2 runs. 9:55 and another length - will make 1553 start firm with 10,000 lbs. on bit 10:03 pales of bottom to refull sits; last of water went out gardely;
- string sluggish due to fill; driller pulls out 4 stands while pits ave felled Fitz pitchel 1020 Commenter Francisco German Discuse 198 1145 Par roll of Inc 10000 - BERNE STREETING PORT TO COUNT STREETING AS 16 = 1155 AT 1527 PER INTE COTTINGS WITH CORNEL AT FUCUS CAN TO BURN THE TELL IS ASSULTED IN BELLE BALL IN 1623' HE RIVE DE-WIND , JELLES LINE SALE AND SEE & MILLER S 1202 400 0= V-20 6125 - 5550 0 - 0000 TE 100

1215 21 21 21 29 1 -- 1 1 2 357 365 Appendix of the control of the contr - 10 VO 15 15/15 with the second of the second THE PERSON NAMED IN THE PERSON NAMED IN - V - No - Doubleh 1.12 1500 182-12 128 138 15-05-GUT A TITLE CORNER OF STREET THE STREET STREET 6-14-56 -17: 1- 12-1 The season was the season \$7 75 REVENUE 12 1 -1 620 John Albert Milan 1:22 3 71-54 -December 1 3155 13 92 BEEFER DESTRUCTION OF WHITE TABLE 4" 26 - 75 1----12000 The state of the s 1991 58811 WALLET KT 168 65 1885 65 1885 TO ADJUST SOURCE SOUTH STORY ENDITER ERIMENTE L'ON MERCON 1711 5000 8 2 (51000 000 000 1000 The second of th By bright of the art down as well and the the last the last of the fact that the formatter than the same of defining where Add - 1 pt like the series 22 the second secon £ 1...



drilled to 1718'; circulating prior to coming out for core bb1. · 2 no starting out of hole 70.20 /1500/2001 (1) AND THE PERSON OF THE PERSON O 16--23 FALL - IN KINEX SET FORM & PARK And the State of the cold and the state of the contract of the state o THE HEVE BURYERS TO THE 200 20 4 500 45 1700 - 190 Det . Eren - LAN 1 = Strike Are Are the Fermi transfer Jane - Heed of the September 12 THE HALL MANY OF THE TERMS OF ALL MAINTAIN 1375 Erne in Comme At 1845 BIGIN CARRELL MARKET MARKET CHARLES 2003 CAR CAREL UT SCORE 25 - Years - James 10 1 1 1 1 1 C CF 707 W. CORE (23) BARREL COTTONS.

L'exact of the second of the second of the .. is alling. The first of the f 2 = 18 on 317 : 2 = 2 = 2 = 7 in length. 4-45 18 The Year - The series - a rearly confine section. Other they grand apte 25 2 months and the region of the second A - 1 - 1/4 PARTITED TO WITH PRINCES RECEIVED. File diagram, drain of the area in the series one of white, fossiliterus limestone some running for a might - solver som in some ently due to the a while exertion. to at a restrict Black loke To Wied. Audminht - BAM. Russell 17.50 AM, MIX. my - Herda 170 /1/2 / January 180 Z Tanky Call - Walk. To Wall 3.4. 111. Started both ... Les Har burley of 1000, Drible, explained That 11 mich fel efel: 7 1021 (83/4 belowlet) and Ill carry had plugged Trued cochers alem in 10 my 64

table and ristative to fi Drole to the elvell thereign I men stockers a for an weekle suren seething Marrows - probably and the formal March in the second $= \begin{pmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 \end{pmatrix}.$ Low could by through built - 12 pers) to the state of the state The state of the s many of the first of 7.011 1.11-4 7 0 71/5 /07 Serveryed to me seven 1 5 3 Wood to Built It was 5.15 Stern new inter carry at. The first the state of the continue 5, 45. Thursel could rection. - Live of the first of the first forther the world for the facility of the second S'- () May I ~ Mas ~ I AM - YPM -Lott - FITZPATEICE CE45 REMARKETE Green Erman - V Pire - Berninger (TO PAGE 27) (25)

Dicerc 7'8" from "

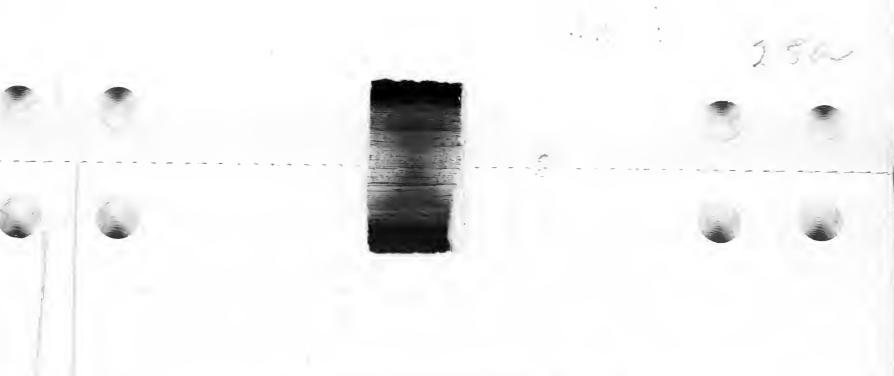
-1 picerc 7'8" from "

-2 33/35

-3 33/35

-4 por of core () -4 por of the sh

515-1545



Wet 10 10 4 - 1718-1745

a sandy texture in a time of him zonto bedding. The material is por sing a y inscient of use of mental of is composed almost as very of Foraminifera - poth the smaller discoid "basch types" and the beggir lepidocyclines. They appearances suggest Miscerie forms from Law and I there will not the tartier y e unit. The large numbers of smaller forms a suggest very shallow water (possibly even a booch). Chips from the losse of lower piece ("D") sent to cole-5/21/52.

First of corn (possibly 4/3') form an unbroken section and starting with piece 3 (1' from top of core) Is. becomes dense, a few small carities and cracks are venecred with minute calcite XIs but rich is not recryst. Same large forams are present and are as well preserved as those above; sections of large calcite XIs prehably represent echinoid spines (specimen E from base of 4th piece sout to cale 15/21/52)

sixth nere and other molds that properly represent mollusks; sick is 62 +74 dill drise + white + well preserved forams persist; balance of first 4/2 'similar,

Builde = to Cole spanson

cord molds (Sample G to Cola for Wells 5/21/52)

1740 FI GARD WITH WS 05 41.50 11. 3 0 2 10 1 1 1 1 1 1 1 2 1 3 1 2 3 X 54-35 " AND 53-19 100 10 Ci CZ BAZZ Link V Pore 6-BI FRE SOLD ALLA CONSETY CAR STATE OF THE PARTY OF THE PARTY. 0934 63 - 37 November 5007 person 50003 SING 1 1 W. E. F. CIRCULETE FOR 7. 5 MINUTES C79. ETT ETILLING HT 1769 HALL, SMITH E936 1776-71 SOFT MINU 1/0125 71 - 15 VERI SEFT, 3 18 18 18 C = 1 = 1 = 1 = 1 = 1 85 89 ECITING MARS 69-00 ferr girling 1609 A Park 6=11 --- 12 1 25 - 7 - 1 51 -1A 70 - 9.7 AND SMETTINGTH CECATIBLE "E.S BEEN CECLETIAE & CONFERNE 3.211 161,211 - 17 77 16 11 1-1805 200 110 0001 1565 67 656, 346; 600 515 61 TR CERY SECT KNOWN FOR 1.6 16 - 15 =08- 11-Miss & WHICK IS NOT BEINE LESS 15 1451 AS IN PARISONS SENSONS (27) (=)

6-5-1-6-5-1-6-5-1-6-5-1-6-5-1-6-5-1-6-5-1-6-5-1-6-5-1-6-5-1-6-5-1-6-5-1-6-5-1-6-5-1-6-5-1-6-5-1-6-5-1-6-5-1-6 15 in the second second 1-105 - 11 FROM THE LOND THE 1 . La 1 His 74.47 DEEL HATTO GARAGE 47. 4° stopics again the Congress 40 5000 271111 10000 -1 SURP MAY 2 - CANS - - -3 11 12 125 62 4/ ENTE 11 -1 /1 -16 ENGEL BUTTER REALDHE STATE TOWNERS THE CORP. LATERS BEGIN DELLES 18 1851-62 1750 1 1. ... 1565 1130 63-64 Jan 50 300 64 86 SEFT CONTY 19414 HINES CF 1/0125 CZ ... CZ ... CELLE D' TREE SE TOUT. CELL RECEITERS ELL FEEL FROM 4-0-50 JE 66- 1563 20 176 1,74 La company of the com 17 70 JE 12 C C 24 1-1914 LONN STEET - BIT DOLLERS 1 18 11 19 9- 170 4 14- 16- 15-50 ENTER WEIGHT be the plant to pary 1916 1916 51301 74 ,28)

Late License a tolling as in Diam. 16 17 254 - 1915 Live 2 - 179 - 5-11 812 8-1-1-1-1 1 12 12 12 12 THE RESIDENCE WAS ASSETTING 19725 ATT THE STREET OF STREET 14 15 3587 100-4 15-33 617 6022 1438 5008 - DEWINIE St 55 , Veids & Har Director - NO SO GETT STEET AND COMPLEY 55 Frank Flick 50 86 501. 1821 45135 65 62 THEY THERE DELICATES ET JE JOHN APING MUCH CHATTER 71-73 Francisco 10 12751 IT MAS LEGAR ENTIESD, TO COSE THIS LAST AMERICAN AS A CASING SERT. HELE 10 TO BE REAMED (MBELL 1 VALLE) DEMIN (4500 8 hs), AND TAVES (65 10 8 N TED (45007 1 2 00/3) -ESTIMATED TIME TO DEFINE CATARDINE 11 44 - F 19 44. 15 10.0 1. 3 4 4 2 - 1 ELLIAN STERMENT (JOHNSON)

4. 2 1: - 1:3 - W. for the first of the second of 1965 1 to the second of 251. 2 8 B. A. 7124 76 . Hale there could grow I a. Marie 10 11 - 12 12 '2 , = 10 = 1 + 0 MIT inud; as a sur will sur surprice May 22 - Thuis. - Long (i) ent - women of . TI'E. BY I AM - Very hard going the word cord earlier) new joint added without fill but still no return of mud. 1 12/2 garing 66517 to, 500 de de la te all ser present gauge; order & all Pellaring sumbles mud up from Hirry 1100 11 - NEW HOLE TO 1320 - VEVY DOUGH 105 5 just de doles en vatery Justing. - to 14 09 1012 " 15 15 to 1 conjusting y times due to see in 5th - 70 1526

5 PM - reamed to 15 49 (due to 185 ... to this point are sty by about 30') 9-11:3 SV. Dui - 153 ... 15 ... The second of th THE THE HILL THE THE PROPERTY STATES Constitution of the second of the second The Tree control production and the Zan and the The property of the second sec SHARES IN A THEE ATT. 117Ky 23 ~ Fri. ~ Lodd 8A1 - 4PM VEEN COUNTY CONTINUE, down to 1710 at 8/15/14 hole tight, whole to make connection; to add third pump so as to avoid Eaving while pits are being whilled, in Il probably have the mix more mul To get Killey down 5 1720. 8.40 - laying = pull our 3.45-ands 1 - Land - done by gam Aden sow out (100 last is mid start and 1 100 2:00 PM - down to 1500' ± . I dear; an = 2000 by 3/5 with 10 V win as circulation; hild more Bien 43 gine; to pump vernainder Is have and then pull out before putting on reamer (hole now reamed to 1526)

Jan Start Colon Co AFIRMED Struted MINING OF DES MAINTET Short Mixed new in the Stud in our · 5 32 " 25 30 11 11 100 1. STATE - THE STATE OF THE STATE OF HIS. PROSE el v =/ Mlee'. 11:30 140/2 100 - 4- 1635 - 1- 7 9/1 1 5 31 1.2- - 8 KM. . BusiES. 70. 12/2 ist - 21/2 50. 2.15. Weater bloomed to the digit desired a telephone and the ET VERE, 3 25. the state of the s The pits cuttery and the second file 32

6.00 Per Stud dosin de la como de May 24 - Sal. 730 - 4PM - Eadd 7:34 Reaming at 1754 (setion where we had pulling up to mix mudj 10:15 start back in hole; 10,25 Jones 1 1820 = hard streaks to couse much chatter. -11:30 - xcomed to 1857 but worth to make connection in east outtings - mul pit now about 1/2 empty and still no exculation. - shet inver to nier mud. - 2:20 VILLE ENILLY do OFIR. - 2 ist at 1906 - 4:00 100 mid - but a . of 1975 ; pull up to use stare mud (pit's marly empty) 48 K. 1638 88. Wixed had antil 7:30. 8/en pumped had into hole. Bit went to bethem All of miles and a series - proper portled. Consider Distanced the shote today. Propertiens were to pun constand - The Exemple of the Exemple on suffy. 1 in the the season four joints of

May 25 ~ 5411 Courty rand his and his comonité to set to prome de un to allow 5/2% 5:45 AM - 4PM Leeled May 21/1 Tues 13/t at 1936 (1978,7 with KD) - start. drilling slowly to clean out doment; Use water (when inud is used is the einent (Avst touched commit 1963) -1975-78 drills hard, cuttings medium to fine, include coment and bits of black material from shoe; circulate for 45 min to chan belo before running cere 661, Ray Totro 1963 (100ff) Cutting acrise, hard, white the or slightly pink rext. Is, some bunded structure (olgol?), way to chips are well preserved larger forams present. -6.40 -7:30 -00 ni - 8:00 start down with core bb. Note: yeard print on lagoon dose to drill see reported middly water in 3 spots 8.43 CIC VETURIS - 7:50 - start coring - "no devotely hard" white Is. - sample in vial -10.45 avivosing 7-8 min/ff; (see p. 37)

11 - 210 Shell Is

21 - 280 Shell Is

230-28 Coul shell - 1.

3 130

190-200 Sanple consists mostly of large pro-

11.1. (see about) Sample consists mostly of large piers 190-200 coral (Porites) - up to 1/4" in diameter; drill apparently struck very large colony The corals are represented in the coarse material as are pieces of buff to tak Is. ecutaining Halimode frequents and mollust shells. Fine, fraction (less than 14") consists of bieten cors/+ frag. Is with fou frag. Helimode and -coms (Morginopora, chiefly). Same as last 200-210 Similar to last two but with fower 210-220 Porito frequents. There are a frew pieces of the buff to tan dense fors. Is and in one proce this material grades into a porous, highly fors. (small foralls + micro-moll) comented /s. Think the dense mot is derived from porous mat. by dep. of calerte. In this connection soo large gast shall lined with yellow calcite ols. in porous layer of free in finer fraction - mostly gast with thin-shotled pelecy; such us tellinids + frogs. of const vibbed forms, Holimode fregs rare 2-71-230 Larger pieces composed almost entirely of micro foss-some porous, some dense (like lost); cementation is by yellow calcite aid all stopes may be found; 230-240 Coarse cordinivofess + yellow

rack frogs coleite, vare; some lovge moll, shells + well energe coral; many small moll incl. area 2110-250 Coevec, mostly fortes and foran - mod. es. similar to that ware (210-220) but without much yellow calcite; smaller foroms abundant in I'm prosting. 250-260 Similar to last but higher percentage finger coralj. Pyrgoma molds Similar; vare moll molds; 3 Lithodomus, 2 260-270 small oystexs 270-280 Coarse cord with fing. Is mative nich in micro-gast some yello's calcite - some of 280-280 Fine coral and shells with few, larger pinders, coral adseveral proces commented Is. with Halandageta; worn moll, mostly small 270-300 Mostly fines with small amt coarse com and cite, wern moll, 300-310 Copys, coral with comented shell dibris; work cardivirs, small rounded pebbles 3.10-120 Free 1919c picers, 2/3 of them fragments of coval; (201 min Porter and pts of branches); other coarse picces of fan, fiss is in her courting. Fines mostly coral is with the micro. moll., tres. larger shells toch spines, smaller forams (see p. 43)

20,5 2191 25/2 19/18/ 200 CITE #5 5-11 + 3 sample - J-K-L 1 rece 5/28 J - face 7-8" from. top -K - " 2002 (epprox - no on som 1 2003 - bottom un.

med, so-+ and one cor -3-4" coch.

mod, 50 - - 3 4 " colly - 12:01. 1000 1 + 111511 = EBYING; la - 2" WOLL softer (1/2+3/2) but hardens at ind; no 1055 of cirturation. - 1:50 pm - 500 at 1913 Core in 34 arrented pieces + 12 dog shorts
of small unoviented pieces,
Top 5'6" of core 6 == 1978top 5'6" of core placed in Box \$2, balance in box \$3 (1111 ns it up) 2003 above) Water Constitution of the Preserved & molds as are mollusks; fined with calcite #15. ; some corals may be in position of growth; others obviously are not in position. ONR Reamed to 2003 by 445 +1; 3 100 1 2002 Repl. #4 - 1 circulation described in 15 min & -dilles on to 2020 - very poor estings, DIE 1 5 CONE NO.5 (1778 -2003) was taken, two Type for your in de to check some I of drilling TF 50 11 1/ -Drilling fluid - see in T Dye - Sedium + Gun 500 - Eig Tol 110 - 30

Am: - 2 5. 04 volume Anie C. H. 95 23. 1. 10 115 - 11 - 11 - 1 of for , 5 /11. 5star, seried cone which is printed The int to keep us to him and the barrens, in this was the react one fina and por 13 1 1 1 52/min. Driver properties in approx. 20 kgd. Time - 11min. 31,7 secon 12.5 = 2-1-1 g- TEN = 1112 27 6, 12 - - 1 - 1 - 1 - 1 - 1 - 1 - 1 2 1 2 2 1 75 /min. 1 3/50 1. 24 34 50 2. from I got to the the dye put in section these in pit to check complete civelent - so wing field A Smoll insunt of In promes heiben willed to the flas, out the ty = 50 115 115 00 116 7. 10/ +ine - 15 min 9500 Pum, se de la como in en Pre 2011 - 20 Den. 15 = 82/2 Till lengy . F cit = 17 - 4232. In ter Mil Elwis to me of 2027 in limin 31.7500, 911. 11.27 11. 11.27 15 .1 in 456. De - 1/4 4 ... 27 7 ... 10 10 12. Gin / car . & three times . I to the pit to be the state of take 1 , 1 , 7. 1 - 8-1

a - Jan FAD SET SA The state of the s 2.61 All re- cary the Truly U.S. . The state of the s the second secon Electric At Miller 2 18 - France 18 The second of the second of the second 27 / F 7 F NF

2064 1,36.... The sainty allers, a line promy the third is a second Litter topect 3.54-1125, Myring accest

America de la companya della company on AM - Karry 170-1 =8 W 6AM - 4/PM - Rodd rough drilling to 2155; - soft

2/30-2155; harder 2/55-2160 6:50 - shot down to full pits Eustlings, word down to snat toble. 7:10-2160-2165-114. sitt, rist firm 9:30-2165 = 2175 - firm, -irly will 9:50 of hele to awar installations

4" water mand incidently to examine

bit; bit endly worn with moiny of small

tich broken is (after 12 hrs?) 2:34 PM Backin hole with new p. 3 pM - on to 2195-all firm; conty 2/88-31. 3: V= PM pull-d up to work on pumpling A.P.A.- 11:30 3 M. Working on puny until 4:55. Har pipe lite lete. Sit refused a few feet 260 . as tom, pressmally due to the next of eatings. Hole wested elean. started driving at 2193. Hole to 2225 at 6 P.M. Zone at 2197 to 2212 gave virtually no resistance to the bit. Zici Excert the Dentes INDICATED MBOUS DRILLING 145 PROCESSED AT HOUR MINGERS FER FT TIES LALE DELLANE SINCETHE AT TO P9 64 X

Notes on outlings (contifrom p.36) in the second of the or it reache and and it to and it dengate unos may no a large force NO -7 Orams; eve structure poseurs. 1901/2 snells VERE PARIC TUYBO Operculumy; ---this mat juste dely non samples immediating a 1001 s. 340-350 interit last but cover and mollust molds much marcabundant; 17010 350-360 in the tost 2, molds large moll, but pelory & sast; a'os small moll & ferens with shed (contain. from above?) - (3 fee PYISING WITH ONE ST 360-370 bittle charge; svy, coverious is with much right yellow cateries, covers and larger melle as molds; for mines well. + smaller forains with shelf. 371-38 John as last - loyours + sied mall shells become fewer 370-390 with depth 371 400 4. 16 -4" 371 . 1170 420 -4 =1 430-440 Similar with well practice corell and large (fras.) moll. LIKE 374-420 - unalt covels and mell. 440-450

450-460 - gray 1s. + yeller dateile - higher preport. of dense proces then above; foss-as molds 460-470 - saine es last junalteral acral + shell vare + may represent in amenation from = 2012; only foralles are recryst, in yellow coloile 470-480 - Essentially same as last but note well preserved mirro moll. in finest fraction (bottler) -gast. (Caecum) jolso foroms, Incorrer fraction calcite molds or Verinches, program both velves, Micro-moll- dond to have come from near surface, some have frey of gray ls attedod - inne as lost with same nolling fine 480 - 490 The source of the - 11 - . That charge 11 1 1 gfras well in z. Envals 500 -5 and Halimeda c esential of and - MESS - most less abundant a-lower 520-53 levels 536-546 540-550 550 -566 570 - 250 576 - 300 (600-625 = Core No. 2 630-640 - Correction 55 of richly tossiliering 1s - fess recrysticalite int. I alds and other with shell for some inter 54, -550 - Saino 11 - Louce (Der Book 2/P. 29) 7:24 7.4 7 EREN LETTIN 15 2-3 (10:03

1. AMOUNT /17

small for iss in the suite suite suite -4 -550 - Same as sisone (ver Book 2/P 29) AKTO STATE 7:24 1:-1: / . \ 10:00 And the second of the second o 037618 1. 1/10 2 /17 MESS 29 12 1/11 - 21 1 1000 x 2001 23' = = = . Lepisto de les 1. C. A. T. Turking ...

P. I. Keiting ... + I have 2 horry 40 , -1 2 E alution 1. , D. in the second second 11/ dutte in his still wind in "Park sturk" CT 2000 - wheel The want by the waster, the ille of the pen Drelling and Lander the en it it is the

and the state of t you it is let de l'est rent l'élant de which is fory some since 2-93-2495 - 6-4-51. - incommercian of confit of the form, La company the contract of the 6.15 E. of Paris Land rejair much permy. Term Loge to whip it is professional designation of the second of th print of the same 7.00 - 1 - 1 - 1 7.25 May 29 - Thurs. 8AM - 4PM Rold Dvilled 5 2527 - fairly hard, no streets shet down to service riguand fill pits

- 1 2 5 5 11 - 0 3 2 harrise ' diller slowly, losing some water Continuing
to add 3 rd pump - 2" line - the should
inable us to drill continuously unless large contict are encountered -10:45 - to 2550 - continues fairly hard shut down to fill pits and install pumps
- this ties like delices smooth except for soilly hard,

put some cuttinss on this " helf" -1130 PM - 2575 - 2600 - firm Except for rough spot 2502 83, soft 2582-95, - 12 - 2600 - 2620' - from wayt no 2618 En = = 1 - 1 - VE - . 11 pr 5 - pulling UD -3:45 - hole filled 50' t with cuttings 25/ - (c. : 4:00 PM + 12:00 PM 4:50 2607 Dec del to the le love hove. Mixed mild ton 2 Ars. The pumper in id into hole, selled pipe + put or core boresta bit, (315 , sipe by End = 5, 17 -May 30 - Fri. - midnight to 8AM 2011 -3.30 DIA startout of hole after ft. No soft spots but pt. (15-20) VCV'/ YOUgh.

6:00 out of inde this sine in tight covalliferous, feraminifent Core NECOVER 165" ON = 65 % Core providenting team or alloi-7:62 probably is prome in interior, Cons consists of 27 10690 origing por 1187 1 SUTA Y SIBALL ORIGINES ON MENT States 12 dr 2 en place. cole WAN to Coke -11 - 2' 1" from top of core undinted chips 15NR 1211 11-7'10" M. Ruel! basis Represent sonal joints howing to builty remembers with peptil Shell to were I fout it 7662-3684, aus " alliente" 3:41 - 0 22 271 2721

1: 30 Print of 2773, at in Milling in all 116 hours eitend if the Rest is from the o 30 - 1 Tare , were - the south 50 84 to 18212 The Sun 13. 1 Thing Mit Ton Tearly to ment to 1 = 5 form strong in 14,000 reserved, or a heaping was not to my At 21.3 " as topped war to be to go were mititied at the entremely soft gons The 28 8 1 - 27 1. Duilled to 2045 wille try to obtain a saw to - the sold zone of sting to E junk broket. Pipe ver were the second of the second of the fit. Although swilling was easy in soft gone, so things I'd not seem to pater acound bit & pipes as end between the Man Adad, by act of directly to Lack of carry seemed to inde attit the 13 Met on many rein. soldated asher Lack of recomme lation of cutilitys and the second to the set of the go to restrice & high contry. (Perhaps to the Karing's Tell-0 Que 150

-- (I - 1) · - , 1215 in in coming had the start is to totally it me , extra en de la de la charle de en a transfer the Carry to the mil in the second of free free free free 1.10-PM. But Jamy Cell The service of the service on top The second of the second - in malelier, represen so printy do not have - don't white - a unular, prody consented, not - just vois in size por shore

... to 100 mg per to the enterior (1) W | 200 1) 7. Lacking . j. . g M.B. Singli in the Market of t . The second of A Marine 12 miles

there is some our here is any in makers May 31 2 Sat. - 8AM . 44M. are testing, unable to vaise or turn string; how top section previne locson it is something of a mystery. Repaired switch desprise weter, burning bit of End of our . - 1 - COVEY = 3' (=100 1/1) = - fin - = 100 mm norder could have masses, with no this A Comment of the Comm SET for 2+1+1 (5/200-) But in hole west Aly ich by 3/31/32 4-M- midnight - Truncing + Formation 1. 16 F. 1649 Commence of the second of the E LANGE 15 CONCRETER 2000 _7 · + · - / To Ein Alisar In Engrand Is singitimes upl 10. 22 -14 - die Whomile Title Inter

Notes on Core #8 -3350-3353 Marriel is coursely fine chally material that makes up one of in the and contains a much bigher prepartiens material that slooply is engant. Molling molds: some of proserved and fingments, mall forms (discoid types) pyres ne dized! guestionable larger fram almost better! All spheres the since the first the starters ef uncretain afforties (Sample P to Cole 6/1/5-2/ Janes 1. The said of the said

Cov _ 53

(-, ((26; 2, non cel March Land the start of the sta But Cecthines and the second

